

~~CONFIDENTIAL~~

## NEGOTIATED CONTRACT (SUPPLIES AND SERVICES)

File out

REQUISITION OR OTHER PURCHASE AUTHORITY 59-13224		CONTRACT/TASK ORDER NO. 111-13224-9		25X1																				
ISSUING OFFICE																								
NAME <div></div>		ADDRESS <div></div>		25X1																				
CONTRACTOR																								
NAME <div></div>		ADDRESS <div></div>		25X1																				
CONTRACT FOR Thermoelectric Generator			AMOUNT \$ 46,525.00	25X1																				
APPROPRIATION AND OTHER ADMINISTRATIVE DATA																								
<div style="text-align: right;"> <table border="1"> <tr> <td>DOB</td> <td>2</td> <td>DATE</td> <td>020580</td> <td>010956</td> </tr> <tr> <td>ORIG CLASS</td> <td>035</td> <td>OR</td> <td>56</td> <td>06</td> </tr> <tr> <td>ORIG CLASS</td> <td>5</td> <td>OR</td> <td>5</td> <td>6</td> </tr> <tr> <td>JUST</td> <td>22</td> <td>DATE</td> <td>7015</td> <td>DATE</td> </tr> </table> </div>					DOB	2	DATE	020580	010956	ORIG CLASS	035	OR	56	06	ORIG CLASS	5	OR	5	6	JUST	22	DATE	7015	DATE
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JUST	22	DATE	7015	DATE																				
<p>This negotiated contract is entered into pursuant to statutory authority and any required determination and findings have been made.</p> <p>This contract is entered into, by and between the United States of America, hereinafter called the Government, represented by the Contracting Officer executing this contract and above named Contractor who is an <input type="checkbox"/> Individual, <input type="checkbox"/> Partnership, <input checked="" type="checkbox"/> Corporation, incorporated in the State of _____, hereinafter called the Contractor.</p> <p>The parties hereto agree that the Contractor shall furnish the facilities and deliver all supplies and perform all the services set forth in the attached Schedule, or Task Orders, issued hereunder, for the consideration stated therein.</p> <p>The rights and obligations of the parties to this contract shall be subject to and governed by the terms and conditions on the reverse hereof, attached Schedule and General Provisions. To the extent of any inconsistency between the Schedule and General Provisions, and any specifications or other provisions which are made a part of the contract by reference or otherwise, the Schedule and the General Provisions shall control. To the extent of any inconsistency between the Schedule and the General Provisions, the Schedule shall control.</p> <p>The Contractor represents (a) that it <input type="checkbox"/> is, <input checked="" type="checkbox"/> is not, a small business concern. For this purpose, a small business concern is a concern that (i) is not dominant in its field of operation and, with its affiliates, employs fewer than 500 employees, or (ii) is certified as a small business concern by the Small Business Administration. (See Code of Federal Reg., Title 13, Ch. II, Part 103, 21 Fed. Reg. 9708, which contains the detailed definition and related procedures.), (b) that it <input type="checkbox"/> has, <input checked="" type="checkbox"/> has not, previously been denied a Small Business Certificate by the Small Business Administration, and (c) if offeror is a regular dealer, it also represents that all supplies to be furnished hereunder <input checked="" type="checkbox"/> will, <input type="checkbox"/> will not be manufactured or produced in the United States or its territories or possessions by a small business manufacturer or producer; and, further, makes the representations regarding contingent or other fees, set forth on the reverse hereof.</p> <p>IN WITNESS WHEREOF, the parties hereto have executed this contract as of <u>20 March</u> 19<u>59</u>.</p>																								
SIGNATURES (Type or print all names under all signatures)																								
CONTRACTOR		THE UNITED STATES OF AMERICA																						
BY <div></div>		E <div></div>																						
TITLE		CONTRACTING OFFICER																						
WITNESSES (In case of corporation, witnesses not required, but certificate on the reverse must be completed.)																								
<div></div>																								

## NOTICE

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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~~SECRET~~

FORM 1398 BACK  
3-58**SECRET**  
(When Filled In)

(12)

**SECURITY NOTE**

This contract and correspondence relating thereto must be handled in strict accordance with classified handling and storage instructions furnished the contractor under separate cover by the procuring activity.

NOTE: Contractor, if a corporation, should cause the following certificate to be executed under its corporate seal, provided that the same officer shall not execute both the contract and the certificate.

**CERTIFICATE**

I, \_\_\_\_\_, certify that I am the \_\_\_\_\_  
\_\_\_\_\_ of the corporation named as Contractor herein; that  
\_\_\_\_\_, who signed this contract on behalf of the Contractor, was then \_\_\_\_\_ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

\_\_\_\_\_  
(SIGNATURE) (Corporate Seal)

**CONTRACTOR'S STATEMENT OF CONTINGENT OR OTHER FEES**

The Contractor represents: (a) that he ☐ has, ☐ has not, employed or retained any company or person (other than a full-time bona fide employee working solely for the Contractor) to solicit or secure this contract; and (b) that he ☐ has, ☐ has not, paid or agreed to pay to any company or person (other than a full-time bona fide employee working solely for the Contractor) any fee, commission, percentage or brokerage fee, contingent upon or resulting from the award of this contract, and agrees to furnish information relating thereto as requested by the Contracting Officer. (Note: For interpretation of the representation, including the term "bona fide employee," see General Services Administration Regulations, Title 44, Secs. 150.7 and 150.5(d), Fed. Reg. Dec. 31, 1952, Vol. 17, No. 253.)

**TERMS AND CONDITIONS**

1. **SELLER'S INVOICES** -- Invoices shall be prepared and submitted in triplicate unless otherwise specified. Invoices shall contain the following information: Contract number, Order number (if any), Item number; contract description of supplies or services, sizes, quantities, unit prices, and extended totals. Bill of lading number and weight of shipment will be shown for shipments made on Government bills of lading. The Contractor or his authorized representative will sign ONLY the original (ribbon typed copy, if typed). When the invoice is signed or receipted in the name of a company or corporation the name of the person signing, as well as the capacity in which he signs, must appear. For example: "John Doe Company, by John Smith, Secretary," "Treasurer," or as the case may be.

2. **LABOR INFORMATION** -- Attention is invited to the possibility that wage determinations may have been made under the Walsh-Healey Public Contracts Act providing minimum wages for employees engaged in the manufacture for sale to the Government of the supplies covered by this contract. Information in this connection, as well as general information as to the requirements of the act concerning overtime payment, child labor, safety and health provisions, etc. may be obtained from Wage and Hour and Public Contracts Division, Department of Labor, Washington 25, D. C.

3. **DISCOUNTS:** In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when delivery and acceptance are at point of origin or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of those points, or from date correct invoice or voucher (properly certified by the Contractor) is received in the office specified by the Government if the latter date is later than the date of delivery.

4. **SAMPLES:** Samples of items, when required, must be submitted within the time specified and at no expense to the Government. If not destroyed by testing, they will be returned at Contractor's request and expense, unless otherwise specified in the Schedule.

5. **GOVERNMENT-FURNISHED PROPERTY** -- No material, labor, or facilities will be furnished by the Government unless otherwise provided in the Schedule.

6. **AGENTS** -- Contracts signed by an agent must be accompanied by evidence of his authority.

7. **ALTERATIONS** -- Any alterations in this contract made by the Contractor must be initialed by both the Contractor and Contracting Officer.

8. **MISTAKES** -- Contractors are expected to examine the drawings, specifications, circulars, schedule and all instructions pertaining to the supplies or services. Failure to do so will be at the Contractor's risk. In case of mistake in extension of price the unit price will govern.

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SCHEDULE (SUPPLY CONTRACT)				PAGE NO.  1	NUMBER OF PAGES OF SCHEDULE
The supplies or services to be furnished, the specifications, the discounts, the time and place of delivery, and any other special terms and conditions applicable to the Contract, Invitation for Bids, or Request for Proposals (as applicable) are set forth below.					
REQUISITION NO. OR OTHER PURCHASE AUTHORITY <b>13224-59</b>			CONTRACT/TASK ORDER/INVITATION/REQUEST NO. (as applicable) <b>111-13224-9</b>		
SHIP TO (consignee and destination) <div style="border: 1px solid black; height: 40px; width: 100%;"></div>			MAIL INVOICES TO <div style="border: 1px solid black; height: 40px; width: 100%; text-align: center;">Issuing Office</div>		
PERFORMANCE PERIOD/DELIVERY SCHEDULE <b>Complete by 20 July 1959</b>					
DELIVERY F.O.B. <b>Destination</b>			INSPECTION <b>Destination</b>		
FOLLOWING DISCOUNTS WILL BE ALLOWED BY CONTRACTOR, BIDDER OR OFFEROR FOR PROMPT PAYMENT					
10 CALENDAR DAYS		PERCENT	20 CALENDAR DAYS		PERCENT
30 CALENDAR DAYS		PERCENT	30 CALENDAR DAYS		PERCENT
ITEM NO.	SUPPLIES OR SERVICES	QUANTITY (Number of Units)	UNIT	UNIT PRICE	AMOUNT
1.	Generator, 10 watt, 15 volt, fuel burning thermoelectric, for charging batteries, propane gas heat source, <div style="border: 1px solid black; display: inline-block; width: 100px; height: 1em; vertical-align: middle;"></div> pursuant to the following requirements:  <u>Objective Specifications:</u>  Power output, rated - - - - - 10 watts Voltage output, rated load - - - - - 15 volts D.C. nominal Number Semiconductor Couples - - - - - 125 Overall Efficiency - - - - - Approximately 4% Heat Source - - - - - Mantle burner operating from an external propane pressure tank  Cooling - - - - - Case finned for convective air cooling Fuel - - - - - Propane gas Weight - - - - - 15 lbs maximum Shock and vibration - - - - - Suitable for normal handling and transport Storage - - - - - -60°C to 60°C Operation - - - - - 100 hours operation without burner maintenance Burner Maintenance - - - - - Simple cleaning procedure and replacement Control - - - - - Manual fuel rate adjustment indicating volt-ammeter Accessories - - - - - 5' output cable with polarity marked battery clips.	1	each	46,525.00	\$46,525.00
TOTAL					\$46,525.00
NAME OF CONTRACTOR, BIDDER OR OFFEROR <div style="border: 1px solid black; height: 20px; width: 100%;"></div>					

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(SCHEDULE)

CONTRACT/TASK ORDER NO.

PAGE 2 OF 3 PAGES

111-13224-9

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Description:

The unit furnished hereunder shall be generally in accordance with [redacted] sketches 58-134 and 58-135 entitled, "CONCEPTUAL DESIGN GASOLINE BURNING GENERATOR," dated 15 December 1958, except that part that is inconsistent with the propane fuel heat source specified elsewhere herein.

25X1

Design Calculation Outline: Shall be as follows except to the extent that this is inconsistent with the propane fuel heat source specified elsewhere herein:

Temperature Hot Junction - - - - - 1100 F.  
 Temperature Cold Junction - - - - - 200 F.  
 Material Efficiency - - - - - 8.16%  
 Q N (Ave. Resistivity of "N" element) - - - - - 1220  $\mu\Omega$ -in.  
 Q P (Ave. resistivity of "P" element) - - - - - 1610  $\mu\Omega$ -in.  
 V<sub>p,n</sub> (Seebeck EMF of one couple) - - - - - 243 mv. @ 900 F. T  
 $\frac{A_n}{A_p} = .851$  = Ratio of area of "N" element to area of "P" element.

Number of couples =  $\frac{15 \text{ volts} \times 2}{.243 \text{ volts}} = 125$  couples

Load Resistance =  $\frac{(15)^2}{10} = 22.5 \Omega$  Internal Resistance =  $\frac{22.5}{1.05} = 21.4 \Omega$

Assume 1" length, then Dia of "P" element = .151 in.  
 Dia of "N" element = .140 in.

Estimated overall efficiency:

Fuel burning efficiency (estimate) - - - - 60 per cent  
 (including exhaust losses)  
 Thermoelectric materials efficiency - - - 8.16 per cent  
 Heat insulation efficiency - - - - - 80 per cent  
 Net overall efficiency = .60 x .0816 x .80 = 3.92 per cent

Fuel Required:

Heat value of regulat leaded gasoline = 21,050 Btu/#  
 10 Watts = 34.1 Btu/Hour output

$\frac{34.1}{21,050 \times .0392} = .041 \text{ \#/Hour}$

NAME OF CONTRACTOR

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(SCHEDULE)

CONTRACT/TASK ORDER NO.

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Packing and Packaging: Shall be in accordance with standard commercial practice for domestic shipment, as set forth in the Uniform Freight Classification for commercial practice, to assure arrival at destination in serviceable condition. Exterior of the container(s) will bear the item numbers and consignee address.

Security: The Contractor's special attention is called to Article 33 entitled "SECURITY," of the General Provisions, which states among other things that the association of this contract with the procuring activity or the Contracting Officer is classified SECRET.

Interior Markings: No markings shall be applied on any interior packaging material or container that would identify the Purchaser -- in accordance with the article hereof entitled IDENTIFICATION AND MARKING OF SHIPMENTS.

NAME OF CONTRACTOR

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Proc. Chg: 9/7900-10-652

Req. No.: MSB 59-304

Voucher: 59-13224

Amount: \$46,525.00

Regn cy to:  Commo

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